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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/801,962	03/08/2001	Stefan Jung	GR 98 P 2516 P	8736
. 7	590 03/09/2004	EXAMINER		
LERNER AND GREENBERG, P.A. Post Office Box 2480 Hollywood, FL 33022-2480			ALAVI, AMIR	
			ART UNIT	PAPER NUMBER
•			2621	.0

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summany	09/801,962	JUNG, STEFAN				
Office Action Summary	Examiner	Art Unit				
	Amir Alavi	2621				
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR ITHE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communicat - If the period for reply specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	CION. CFR 1.136(a). In no event, however, may a rition. s, a reply within the statutory minimum of thir period will apply and will expire SIX (6) MON y statute, cause the application to become AE	eply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	08 March 2001.					
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closed in accordance with the practice up	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4a) Of the above claim(s) is/are wind solution. 5) ⊠ Claim(s) 5 and 6 is/are allowed. 6) ⊠ Claim(s) 1 is/are rejected. 7) ⊠ Claim(s) 2-4 is/are objected to. 	☐ Claim(s) 1 is/are rejected.					
Application Papers						
9) The specification is objected to by the Ex 10) The drawing(s) filed on <u>08 March 2001</u> is Applicant may not request that any objection Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by	/are: a)⊠ accepted or b)⊡ obj to the drawing(s) be held in abeyar correction is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International E * See the attached detailed Office action for	uments have been received. uments have been received in A e priority documents have been Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Profesorous's Patent Proving Review (PTO 8		Summary (PTO-413) s)/Mail Date				
 Notice of Draftsperson's Patent Drawing Review (PTO-9-3) Information Disclosure Statement(s) (PTO-1449 or PTO/Paper No(s)/Mail Date 4.7. 		nformal Patent Application (PTO-152)				

Art Unit: 2621

DETAILED ACTION

Specification

- Claim 5 is objected to because of the following informalities: wherein, "a surface upon an image", should be changed to, "a surface upon which an image".
- Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Art Unit: 2621

Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Bird et
 al. (US 6,108,438).

Regarding claim 1, Bird et al., disclose: providing a multiplicity of electrodes arranged in a grid and acquiring an image by measuring electrical capacitances between respective electrodes and image pixels (Please note, figure 3, in correlation to column 5, lines 30-57. As seen in this figure grid 33 is composed of plurality of electrodes and electrical capacitances being measured); acquiring, with further electrodes arranges in the grid and capacitively coupled to one another, a local average value of a corresponding measurement of the electrical capacitances in respectively delimited areas of the image and utilizing the average value as a reference value for the measured electrical capacitance at, at least one pixel within the relevant delimited area (Please note, column 8, lines 6-9. As indicated several readings of the capacitance image of a fingerprint can be taken in rapid successive over successive field periods, allowing an averaging operation to be performed for improving accuracy).

Art Unit: 2621

Allowable Subject Matter

- Claims 2-4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- Claims 5-6 would be allowable if rewritten or amended to overcome the objection, set forth in this Office action.
- The following is a statement of reasons for the indication of allowable subject matter: None of the prior art disclose or fairly suggest wherein having two layers of measuring electrodes formed as electrical conductors disposed at mutually different spacing distances from said surface, said electrical conductors being subdivided in accordance with the grid and mutually insulated and wherein said two layers including a first layer at a shorter distance from the surface, said first layer having further electrical conductors as reference electrodes disposed adjacent said measuring electrodes in accordance with the grid and capacitively coupled within predetermined areas, such that a locally averaged capacitive measurement can be performed around each pixel with said reference electrodes.

Art Unit: 2621

Other prior art cited

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Borza (US 5,907,627) is pertinent as teaching a fingerprint sensing device and recognition system.

Knapp (US 5,325,442) is pertinent as teaching fingerprint sensing device and recognition system having predetermined electrode activation.

Kalnitsky et al. (US 6,011,859) is pertinent as teaching solid state fingerprint sensor packaging apparatus and method.

Young (US 5,952,588) is pertinent as teaching capacitive sensing array device.

Hamid (US 6,038,334) is pertinent as teaching method of gathering biometric information.

Harkin (US 5,978,496) is pertinent as teaching fingerprint sensing device and systems incorporating such.

Freedman et al. (US 6,259,805 B1) is pertinent as teaching biometric security encryption system.

Art Unit: 2621

Howker et al. (US 5,812,252) is pertinent as teaching fingerprint acquisition apparatus for access control; personal weapon and other systems controlled thereby.

McCalley et al. (US 5,956,415) is pertinent as teaching enhanced security fingerprint sensor package and related methods.

Setlak (US 5,953,441) is pertinent as teaching fingerprint sensor having spoof reduction features and related methods.

Contact Information

- ➤ Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Amir Alavi whose telephone number is (703) 306-5913.
- The Examiner can normally be reached on Monday through Thursday from 8:00 a.m. to 6:30 p.m. If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Leo Boudreau, can be reached at (703) 305-4706.

Art Unit: 2621

Any response to this action should be mailed to:

Assistant Commissioner for Patents

Washington, D.C. 20231

Or faxed to:

(703) 872-9306, ("draft" or "informal" communications should be clearly labeled to expedite delivery to Examiner)

Hand delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist). Any inquiry of a general nature or relating to the status of this application should be directed to the T.C. Customer Service Office whose telephone number is (703) 306-0377.

ANDREW W. JOHNS PRIMARY EXAMINER

AA Group Art Unit 2621 04 March 2004